IN THE CLAIMS

Please amend the claims as follows:

1. through 23. (canceled)

24. (New) A method comprising:

forming an antenna beam pattern to communicate with a single user to the exclusion of all other users;

determining a statistic using a control signal from the user; and

utilizing the statistic to narrow the antenna beam pattern.

25. (New) The method of claim 24 further comprising storing the antenna beam pattern.

26. (New) The method of claim 24 wherein the statistic is utilized to narrow the antenna beam pattern through a dithering algorithm.

27. (New) The method of claim 24 wherein the control signal comprises a power control signal.

28. (New) The method of claim 24 wherein the control signal comprises a data rate control signal.

29. (New) The method of claim 24 wherein the statistic comprises an average of the control signal over a specified interval of time.

30. (New) The method of claim 24 wherein the statistic comprises a running average of the control signal.

31. (New) The method of claim 24 wherein the statistic comprises a weighted average of the control signal.

32. (New) The method of claim 24 wherein the antenna beam pattern is formed using an adaptive antenna array.

33. (New) The method of claim 24 wherein the communication signal is sent over a forward link of a wireless communication system.

34. (New) The method of claim 33 wherein the wireless communication system comprises a wideband code division multiple access communication system.

35. (New) A system comprising:

an antenna configured to generate an antenna beam pattern to communicate with a single user to the exclusion of all other users;

a control signal monitoring module configured to access a control signal from the user;

a signal statistic computation module configured to determine a statistic from a sequence of monitored signals output by the signal monitoring module; and

an antenna beam pattern optimizing module configured to utilize the statistic to narrow the antenna beam pattern.

36. (New) The system of claim 35 wherein the antenna comprises an adaptive antenna array module configured to output and direct the antenna beam pattern to the single user.

37. (New) The system of claim 35 further comprising an antenna beam pattern storing module configured to store the antenna beam pattern.

38. (New) The system of claim 35 wherein the antenna beam pattern optimizing module uses a dithering algorithm to narrow the antenna beam pattern.

39. (New) The system of claim 35 wherein the control signal comprises a power control signal.

40. (New) The system of claim 35 wherein the control signal comprises a data rate control signal.

41. (New) The system of claim 35 wherein the statistic comprises an average of the sequence of monitored signals over a specified interval of time.

42. (New) The system of claim 35 wherein the statistic comprises a running average of the sequence of monitored signals.

43. (New) The system of claim 35 wherein the statistic comprises a weighted average of the sequence of monitored signals.

44. (New) The system of claim 35 wherein the communication signal is sent over a forward link of a wireless communication system.

45. (New) The system of claim 44 wherein the wireless communication system comprises a wideband code division multiple access communication system.